




















Sequences producing significant alignments:

Score E
(bits) Value

gi 37182190 gb AY358534.1 	Homo sapiens clone DNA76396 ESRM...	4896	0.0	
gi 21750076 dbj AK091656.1 	Homo sapiens cDNA FLJ34337 fis,...	4869	0.0	
gi 21750007 dbj AK091596.1 	Homo sapiens cDNA FLJ34277 fis,...	4496	0.0	
gi 29126308 gb AC125494.2 	Homo sapiens 12 PAC RP4-761J14 (...)	3620	0.0	
gi 23273049 gb BC035736.1 	Homo sapiens hypothetical protei...	2444	0.0	
gi 31559779 ref NM_153685.2 	Homo sapiens hypothetical prot...	2444	0.0	
gi 16551656 dbj AK056295.1 	Homo sapiens cDNA FLJ31733 fis,...	2440	0.0	
gi 21755198 dbj AK095854.1 	Homo sapiens cDNA FLJ38535 fis,...	2432	0.0	
gi 21732368 emb AL831874.1 HSM803198	Homo sapiens mRNA; cDN...	2018	0.0	
gi 14388568 dbj AB063097.1 	Macaca fascicularis brain cDNA ...	1951	0.0	
gi 9280141 dbj AB046043.1 	Macaca fascicularis brain cDNA, ...	1919	0.0	
gi 40787821 gb BC065170.1 	Mus musculus RIKEN cDNA C5300280...	829	0.0	
gi 26350162 dbj AK082984.1 	Mus musculus 12 days embryo spi...	781	0.0	
gi 31342339 ref NM_175696.2 	Mus musculus RIKEN cDNA C53002...	781	0.0	
gi 34858455 ref XM_232352.2 	Rattus norvegicus similar to R...	626	e-176	
gi 33331884 gb AF540035.1 	Mus musculus brain protein 1 mRN...	569	e-158	

gi 11527816 gb AF168681.1	Homo sapiens CRIM1 protein gene,...	58	9e-05	
gi 7839914 gb AC007378.4 AC007378	Homo sapiens BAC clone RP...	58	9e-05	
gi 33620859 gb AC102339.16	Mus musculus chromosome 18, clo...	52	0.005	
gi 21211731 emb AL445426.20	Human DNA sequence from clone ...	52	0.005	
gi 16554315 gb AC087892.16	Homo sapiens 12q BAC RP11-3L23 ...	50	0.021	
gi 20177769 gb AC009285.10	Homo sapiens chromosome 18, clo...	50	0.021	
gi 15982602 gb AC093325.3	Homo sapiens BAC clone RP11-612J...	50	0.021	
gi 41015639 gb AC121563.3	Mus musculus BAC clone RP23-198C...	50	0.021	
gi 27501986 emb AL935054.11	Mouse DNA sequence from clone ...	50	0.021	
gi 12000430 gb AC026369.21 AC026369	Homo sapiens 12 BAC RP1...	50	0.021	
gi 23556658 emb AL772323.8	Mouse DNA sequence from clone R...	50	0.021	
gi 38229421 gb AC123060.4	Mus musculus BAC clone RP23-214M...	48	0.085	
gi 37591276 gb AC109805.8	Mus musculus chromosome 3, clone...	48	0.085	
gi 35931852 gb AC102637.7	Mus musculus chromosome 6, clone...	48	0.085	
gi 33859906 gb AC058788.89	Mus musculus clone rp23-284a9 m...	48	0.085	
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gi 16445088 gb AC012464.25	Homo sapiens 12 BAC RP11-1060G2...	46	0.33	
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gi 20128534 gb AC018522.7	Homo sapiens chromosome 18, clon...	46	0.33	
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gi 32996852 gb AC102576.5 	Mus musculus chromosome 18, clon...	44	1.3	
gi 32813578 gb AC102452.7 	Mus musculus chromosome 5, clone...	44	1.3	

Alignments

Get selected sequences

Select all

Deselect all

 >[gi|37182190|gb|AY358534.1|](#)  Homo sapiens clone DNA76396 ESRM828 (UNQ828) mRN
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Score = 4896 bits (2470), Expect = 0.0
Identities = 2512/2524 (99%), Gaps = 9/2524 (0%)
Strand = Plus / Plus

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

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Sbjct: 797 ttcggggactcacctacccccaccctgaccatgaggagccccgagggggacccccgcct 856

Query: 838 gggatgccccaccccaagggggctccagccttcagttgaaccggtgagggcaggggcaa 897
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Sbjct: 857 gggatgccccaccccaagggggctccagccttcagttgaaccggtgagggcaggggcaa 916

Query: 898 tgggatgggagggcaaagaggggaaggcaacttaggtcttcagagctgggggtgggggtgcc 957
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Sbjct: 917 tgggatgggagggcaaagaggggaaggcaacttaggtcttcagagctgggggtgggggtgcc 976

Query: 958 ctctggatgggtagtgaggaggcaggcgtggcctcccacagcccctggccctcccaagg 1017
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Sbjct: 977 ctctggatgggtagtgaggaggcaggcgtggcctcccacagcccctggccctcccaagg 1036

Query: 1018 ggctggaccagctcctctctgggaggcacccttccttctccagtcctctcaggatctgtg 1077
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Sbjct: 1037 ggctggaccagctcctctctgggaggcacccttccttctccagtcctctcaggatctgtg 1096

Query: 1078 tcctattctctgctgcccataactccaactctgccctctttgggttttttctcatgccacc 1137
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Query: 1138 ttgtctaagacaactctgccctcttaaccttgattccccctctttgtcttgaacttcccc 1197
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Query: 1198 ttctattctggcctaccccttgggttcctgactgtgccctttccctcttccctctcaggatt 1257
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Query: 1318 ccggcacagcccccatcccactgaggggtggggcagctgtggggagctggggccacagggg 1377
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Query: 1378 ctcttggtcctgccccttgacacaccaccggaacactccccagccccacgggcaatcct 1437
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Sbjct: 1397 ctcttggtcctgccccttgacacaccaccggaacactccccagccccacgggcaatcct 1456

Query: 1438 atctgctcgccctcctgcaggtgggggcctcacatatctgtgacttcgggtccctgtccc 1497
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Sbjct: 1457 atctgctcgccctcctgcaggtgggggcctcacatatctgtgacttcgggtccctgtccc 1516

Query: 1498 cacccttgtgcactcacatgaaagccttgcacactcacctccaccttcacaggccatttg 1557
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results of

BLAST

BLASTN 2.2.8 [Jan-05-2004]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1078332477-1810-81378434929.BLASTQ3

Query=

(2515 letters)

Database: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS, GSS, or phase 0, 1 or 2 HTGS sequences)

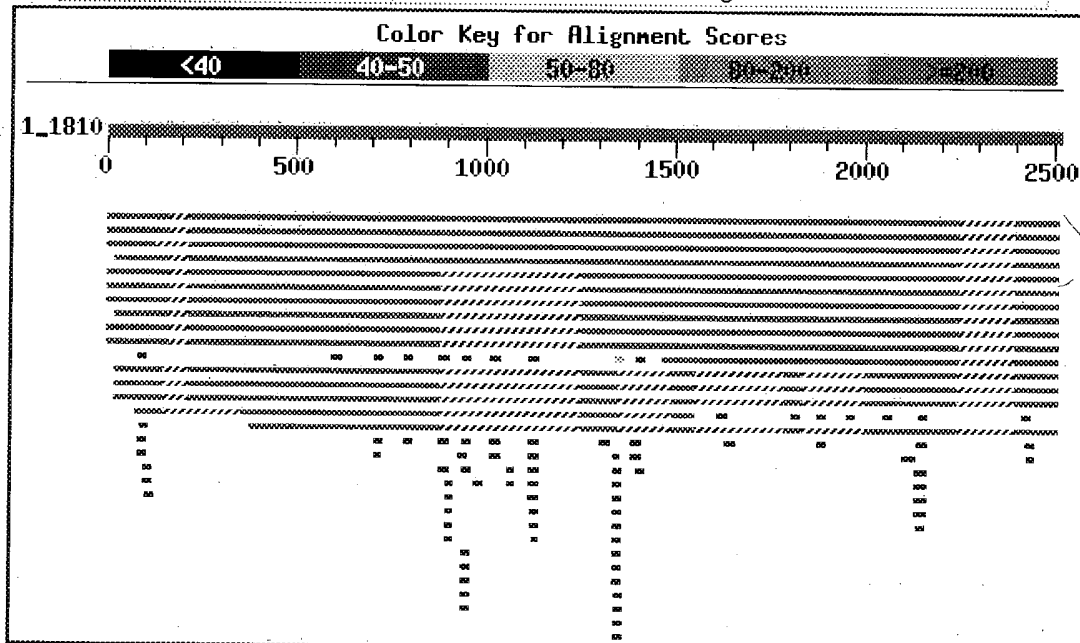
2,092,142 sequences; 10,066,846,959 total letters

If you have any problems or questions with the results of this search please refer to the [BLAST FAQs](#)

[Taxonomy reports](#)















Distribution of 156 Blast Hits on the Query Sequence















Mouse-over to show define and scores. Click to show alignments



Score E

Sequences producing significant alignments: *SEQ ID NO: 251* (bits) Value

gi 37182190 gb AY358534.1	Homo sapiens clone DNA76396 ESRM...	3998	0.0	
gi 21750076 dbj AK091656.1	Homo sapiens cDNA FLJ34337 fis,...	3998	0.0	
gi 21750007 dbj AK091596.1	Homo sapiens cDNA FLJ34277 fis,...	3998	0.0	
gi 29126308 gb AC125494.2	Homo sapiens 12 PAC RP4-761J14 (...)	3128	0.0	
gi 23273049 gb BC035736.1	Homo sapiens hypothetical protei...	1951	0.0	
gi 16551656 dbj AK056295.1	Homo sapiens cDNA FLJ31733 fis,...	1951	0.0	
gi 31559779 ref NM_153685.2	Homo sapiens hypothetical prot...	1951	0.0	
gi 21755198 dbj AK095854.1	Homo sapiens cDNA FLJ38535 fis,...	1943	0.0	
gi 14388568 dbj AB063097.1	Macaca fascicularis brain cDNA ...	1584	0.0	
gi 9280141 dbj AB046043.1	Macaca fascicularis brain cDNA, ...	1560	0.0	
gi 21732368 emb AL831874.1	HSM803198 Homo sapiens mRNA; cDN...	1524	0.0	
gi 40787821 gb BC065170.1	Mus musculus RIKEN cDNA C5300280...	712	0.0	
gi 26350162 dbj AK082984.1	Mus musculus 12 days embryo spi...	680	0.0	
gi 31342339 ref NM_175696.2	Mus musculus RIKEN cDNA C53002...	680	0.0	
gi 34858455 ref XM_232352.2	Rattus norvegicus similar to R...	626	e-176	
gi 33331884 gb AF540035.1	Mus musculus brain protein 1 mRN...	569	e-158	
gi 12000430 gb AC026369.2	AC026369 Homo sapiens 12 BAC RP1...	50	0.021	
gi 21622762 gb AC090465.15	Homo sapiens chromosome 18, clo...	46	0.33	
gi 20330786 gb AC069547.7	Homo sapiens chromosome 10 clone...	46	0.33	
gi 20128534 gb AC018522.7	Homo sapiens chromosome 18, clon...	46	0.33	
gi 20279493 gb AC087465.5	Homo sapiens chromosome 15, clon...	46	0.33	
gi 4938290 emb AL031431.8	HS462023 Human DNA sequence from ...	46	0.33	
gi 18253071 gb AY072004.1	AY072004S1 Gallus gallus breed Le...	46	0.33	
gi 18253066 gb AY072002.1	AY072002S1 Gallus gallus breed Le...	46	0.33	
gi 7327972 emb AL117341.26	HSBA512N4 Human DNA sequence fro...	46	0.33	
gi 24431547 gb AC010173.27	Homo sapiens 12 BAC RP11-977B10...	46	0.33	
gi 29469629 gb AC126256.4	Mus musculus BAC clone RP24-235B...	44	1.3	
gi 32813578 gb AC102452.7	Mus musculus chromosome 5, clone...	44	1.3	
gi 30911143 gb AC083984.7	Homo sapiens chromosome 11, clon...	44	1.3	
gi 28570348 gb AC079819.40	Mus musculus chromosome 10 clon...	44	1.3	
gi 20163027 gb AC091120.5	Leishmania major chromosome 2 cl...	44	1.3	
gi 18307339 emb AL365181.24	Human DNA sequence from clone ...	44	1.3	
gi 32526683 dbj AP006477.2	Homo sapiens genomic DNA, chrom...	44	1.3	
gi 17425220 dbj AP000593.4	Homo sapiens genomic DNA, chrom...	44	1.3	
gi 40806922 gb AY495604.1	Gibberella moniliformis polyketi...	44	1.3	
gi 12597739 gb AC022368.2	AC022368 Mus musculus clone RP23-...	44	1.3	
gi 11386272 gb AC010533.6	AC010533 Homo sapiens chromosome ...	44	1.3	
gi 11863370 emb AL158196.24	Human DNA sequence from clone ...	44	1.3	
gi 39841165 gb AC116470.12	Mus musculus chromosome 16, clo...	42	5.2	
gi 22026895 ref NM_137508.2	Drosophila melanogaster CG5345...	42	5.2	
gi 24962936 gb AC125404.4	Mus musculus BAC clone RP23-10A1...	42	5.2	
gi 25141141 gb AC122233.4	Mus musculus BAC clone RP23-137D...	42	5.2	
gi 37700357 gb AC122158.17	Mus musculus clone ct7-433o3 ma...	42	5.2	
gi 31795103 gb AC073585.8	Homo sapiens chromosome 10 clone...	42	5.2	
gi 21358710 gb AC095025.2	Sus scrofa clone RP44-93L12, com...	42	5.2	
gi 23237939 gb AC073562.6	Mus musculus chromosome 12 clone...	42	5.2	
gi 6563055 gb AF109422.1	Icterus laudabilis ATPase subunit...	42	5.2	
gi 6563054 gb AF109421.1	Icterus laudabilis ATPase subunit...	42	5.2	
gi 6563053 gb AF109420.1	Icterus laudabilis ATPase subunit...	42	5.2	
gi 6563048 gb AF109415.1	Icterus oberi ATPase subunit 8 (A...	42	5.2	
gi 6563047 gb AF109414.1	Icterus oberi ATPase subunit 8 (A...	42	5.2	
gi 6563046 gb AF109413.1	Icterus bonana ATPase subunit 8 (...)	42	5.2	
gi 6563045 gb AF109412.1	Icterus bonana ATPase subunit 8 (...)	42	5.2	

gi 22549663 gb AC069261.37	Homo sapiens 12 BAC RP11-30G17 ...	42	5.2	
gi 42415071 emb BX248127.9	Zebrafish DNA sequence from clo...	42	5.2	
gi 21954995 gb AC126754.2	Homo sapiens chromosome 19 clone...	42	5.2	
gi 21747461 gb AC074212.5	Homo sapiens chromosome 19 clone...	42	5.2	
gi 10280745 gb AC011530.6	Homo sapiens chromosome 19 clone...	42	5.2	
gi 21644931 gb AF447327.1	Emberiza spodocephala cytochrome...	42	5.2	
gi 20340497 gb AC105276.2	Homo sapiens chromosome 1 clone ...	42	5.2	
gi 21627005 gb AE003799.3	Drosophila melanogaster chromoso...	42	5.2	
gi 40363256 emb BX842610.3	Mouse DNA sequence from clone R...	42	5.2	
gi 19528336 gb AY089545.1	Drosophila melanogaster LD22255 ...	42	5.2	
gi 37605821 emb AL954251.1	Pan troglodytes chromosome 22 c...	42	5.2	
gi 37605820 emb AL954250.1	Pan troglodytes chromosome 22 c...	42	5.2	
gi 2052040 emb Z84483.1 HS46H23	Human DNA sequence from clo...	42	5.2	
gi 7717439 emb AL163301.2 HS21C101	Homo sapiens chromosome ...	42	5.2	
gi 7717435 emb AL163300.2 HS21C100	Homo sapiens chromosome ...	42	5.2	
gi 26801278 gb AC093142.2	Homo sapiens chromosome 3 clone ...	42	5.2	
gi 18253076 gb AY072006.1 AY072006S1	Gallus gallus breed Fa...	42	5.2	
gi 15778776 gb AC012363.6	Homo sapiens BAC clone RP11-4380...	42	5.2	
gi 16798960 gb AC099028.1	Drosophila melanogaster, chromos...	42	5.2	
gi 11061969 emb AL139187.19	Human DNA sequence from clone ...	42	5.2	
gi 21907987 dbj AP004969.1	Lotus corniculatus var. japonic...	42	5.2	
gi 31335525 emb BX004975.9	Zebrafish DNA sequence from clo...	42	5.2	
gi 29500529 emb BX322560.1 HSQ26C4	Homo sapiens chromosome ...	42	5.2	
gi 21540310 emb AL773604.1 HS225L15	Homo sapiens chromosome...	42	5.2	
gi 29603253 emb BX293535.3	Human DNA sequence from clone R...	42	5.2	
gi 27530987 dbj AB073635.1	Drosophila yakuba H4, H2A, H2B,...	42	5.2	
gi 41054732 ref NM_010657.2	Mus musculus human immunodefic...	42	5.2	
gi 13450001 gb AC016045.8 AC016045	Homo sapiens chromosome ...	42	5.2	
gi 22760526 dbj AK074826.1	Homo sapiens cDNA FLJ90345 fis,...	42	5.2	
gi 13270556 gb AC009850.10 AC009850	Drosophila melanogaster...	42	5.2	
gi 3046272 gb AC004386.1 AC004386	Homo Sapiens Chromosome X...	42	5.2	
gi 2822137 gb AC002418.1 AC002418	Human Chromosome X, compl...	42	5.2	
gi 11095069 gb AC084620.1 CBRG44L02	Caenorhabditis briggsae...	42	5.2	
gi 2114492 gb AF001042.1 AF001042	Homo sapiens RNA editase ...	42	5.2	
gi 40557579 gb AY454345.1	Mus musculus clone pZAS3 328-227...	42	5.2	
gi 406584 emb X74627.1 MMMUC18G1	M.musculus gene for MUC18 ...	42	5.2	
gi 13235085 emb AL034346.31 HS668J24	Human DNA sequence fro...	42	5.2	
gi 14031074 emb AL136449.10	Human DNA sequence from clone ...	42	5.2	
gi 21619988 gb BC033204.1	Homo sapiens sine oculis homeobo...	42	5.2	
gi 18077665 emb AL157934.17	Human DNA sequence from clone ...	42	5.2	
gi 20386843 emb AL607142.16	Mouse DNA sequence from clone ...	42	5.2	
gi 14018300 emb AL512666.6	Human DNA sequence from clone R...	42	5.2	
gi 40354215 ref NM_175875.3	Homo sapiens sine oculis homeo...	42	5.2	
gi 1103425 emb X84813.1 HSDMAHP	H.sapiens DMAHP gene	42	5.2	
gi 349300 gb L07911.1 MUSRC1DBP	Mouse Ig kappa chain recomb...	42	5.2	
gi 22204290 emb AL627394.15	Mouse DNA sequence from clone ...	42	5.2	

Alignments

☒ >gi|37182190|gb|AY358534.1|
 ☒ Homo sapiens clone DNA76396 ESRM828 (UNQ828) mRNA

Length = 2524

Score = 3998 bits (2017), Expect = 0.0

Identities = 2031/2035 (99%), Gaps = 3/2035 (0%)

Strand = Plus / Plus

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Sbjct: 343 gggccgcccctcatcccaatacccctgggctatcgtgtgggggtcccaccgtgtctcgagag 402

Query: 400 gatggaggggaccccaactctgccaatcccggatttctggactatggttttgcagcccct 459
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Query: 1060 agtctctcaggatctgtgtcctattctctgctgcccataactccaactctgccctctttg 1119
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Sbjct: 1963 cccagacttcacccccagccactgctaaaatctgttttctgacagatgggttttgggga 2022

Query: 2017 gtcgcctgctgcactacatgagaaagggactcccatttgcccttcctttctcctacagt 2076
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Sbjct: 2083 cccttttgtcttgtctgtcctggctgtctgtgtgtgtgccattctctggacttcagagcc 2142

Query: 2137 ccctgagccagtcctcccttcccagcctccctttgggcctccctaactccacctaggctg 2196
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Sbjct: 2203 ccagggaccggagtcagctggttcaaggccatcgggagctctgcctccaagtcta 2257

Score = 297 bits (150), Expect = 5e-77
Identities = 164/168 (97%), Gaps = 3/168 (1%)

Strand = Plus / Plus

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Sbjct: 1 cgccaagcatgcagtaaaggctgaaaatctgggtcacagctgaggaagacctcagacatg 60



Query: 58 gagtccaggatgtggcctgcgctgctgctgtcccacctcctccctctctggccactgctg 117
|||||
Sbjct: 61 gagtccaggatgtggcctgcgctgctgctgtcccacctcctccctctctggccactgctg 120

Query: 118 ttgctgccctcccaccgcctgctcagggctcttcacctcccctcga 165
|||||
Sbjct: 121 ttgctgccctcccaccgcctgctcagggctcttcacctcccctcga 168

Score = 198 bits (100), Expect = 4e-47
Identities = 114/118 (96%), Gaps = 3/118 (2%)
Strand = Plus / Plus

Query: 2401 ggctcctaggctgtgatataatattttgtattatctctttcttcttcttggtgatcat 2460
|||||
Sbjct: 2407 ggctcctaggctgtgatataatattttgtattatctctttcttcttcttggtgatcat 2466

Query: 2461 cttgaattactgtgggatgtaagtttc---cttttcaaataaagcctttgcaagataa 2515
|||||
Sbjct: 2467 cttgaattactgtgggatgtaagtttcaaaattttcaaataaagcctttgcaagataa 2524

 >gi|21750076|dbj|AK091656.1|  Homo sapiens cDNA FLJ34337 fis, clone FEBRA2009
Length = 2538

Score = 3998 bits (2017), Expect = 0.0
Identities = 2031/2035 (99%), Gaps = 3/2035 (0%)
Strand = Plus / Plus

Query: 220 cgtcatgtgtgcgtgtgggagcgagcacctccaccaagccgatctcctcgggtcccaaga 279
|||||
Sbjct: 239 cgtcatgtgtgcgtgtgggagcgagcacctccaccaagccgatctcctcgggtcccaaga 298

Query: 280 tcacgtcggcaagtccctgcctggcactgcacccccagccaccccatcaggctttgaggag 339
|||||
Sbjct: 299 tcacgtcggcaagtccctgcctggcactgcacccccagccaccccatcaggctttgaggag 358

Query: 340 gggccgccctcatcccaataaccctgggctatcgtgtgggggtcccaccgtgtctcgagag 399
|||||
Sbjct: 359 gggccgccctcatcccaataaccctgggctatcgtgtgggggtcccaccgtgtctcgagag 418

Query: 400 gatggaggggaccccaactctgccaatcccgatttctggactatggttttgcagccct 459
|||||

Sbjct: 419 gatggaggggaccccaactctgccaatccccgatttctggactatggttttgcagcccct 478

Query: 460 catgggctcgcaacccccacccccaaactcagactccatgcgaggtgatggagatgggctt 519
|||||

Sbjct: 479 catgggctcgcaacccccacccccaaactcagactccatgcgaggtgatggagatgggctt 538

Query: 520 atccttgagagggcacctgccaccctgcgccattcctgttcgggggcccgtggggaaggt 579
|||||

Sbjct: 539 atccttgagagggcacctgccaccctgcgccattcctgttcgggggcccgtggggaaggt 598

Query: 580 gtggacccccagctctatgtcacaaattaccatctccatcatcattgttctcgtggccact 639
|||||

Sbjct: 599 gtggacccccagctctatgtcacaaattaccatctccatcatcattgttctcgtggccact 658

Query: 640 ggcatcatcttcaagttctgctgggaccgcagccagaagcgacgcagaccctcagggcag 699
|||||

Sbjct: 659 ggcatcatcttcaagttctgctgggaccgcagccagaagcgacgcagaccctcagggcag 718

Query: 700 caaggtgccctgaggcaggaggagagccagcagccactgacagacctgtccccggctgga 759
|||||

Sbjct: 719 caaggtgccctgaggcaggaggagagccagcagccactgacagacctgtccccggctgga 778

Query: 760 gtcactgtgctgggggccttcggggactcacctacccccacccctgaccatgaggagccc 819
|||||

Sbjct: 779 gtcactgtgctgggggccttcggggactcacctacccccacccctgaccatgaggagccc 838

Query: 820 cgagggggaccccgccctgggatgccccaccccaagggggctccagccttcagttgaac 879
|||||

Sbjct: 839 cgagggggaccccgccctgggatgccccaccccaagggggctccagccttcagttgaac 898

Query: 880 cggtgagggcaggggcaatgggatgggagggcaaagaggggaaggcaacttaggtcttcag 939
|||||

Sbjct: 899 cggtgagggcaggggcaatgggatgggagggcaaagaggggaaggcaacttaggtcttcag 958

Query: 940 agctgggggtgggggtgccctctgggatgggtagtgaggaggcagggcgtggcctcccacagc 999
|||||

Sbjct: 959 agctgggggtgggggtgccctctgggatgggtagtgaggaggcagggcgtggcctcccacagc 1018

Query: 1000 ccctggccctcccaagggggctggaccagctcctctctgggaggcacccttccttctccc 1059
|||||

Sbjct: 1019 ccctggccctcccaagggggctggaccagctcctctctgggaggcacccttccttctccc 1078

Query: 1060 agtctctcaggatctgtgtcctattctctgctgcccataactccaactctgccctctttg 1119
|||||

Sbjct: 1079 agtctctcaggatctgtgtcctattctctgctgcccataactccaactctgccctctttg 1138

Query: 1120 gttttttctcatgccaccttgtctaagacaactctgccctcttaaccttgattccccctc 1179
|||||

Sbjct: 1139 gttttttctcatgccaccttggtctaaagacaactctgccctcttaaccttgattccccctc 1198

Query: 1180 tttgtcttgaacttcccccttctattctggcctacctcttggttcctgactgtgccctttc 1239

|||||
Sbjct: 1199 tttgtcttgaacttcccccttctattctggcctacctcttggttcctgactgtgccctttc 1258

Query: 1240 cctcttcctctcaggattccccctggtgaatctgtgatgcccccaatggtggggtgcagcc 1299

|||||
Sbjct: 1259 cctcttcctctcaggattccccctggtgaatctgtgatgcccccaatggtggggtgcagcc 1318

Query: 1300 aagcaggaggccaaggggcccggcacagcccccatccactgaggggtggggcagctgtggg 1359

|||||
Sbjct: 1319 aagcaggaggccaaggggcccggcacagcccccatccactgaggggtggggcagctgtggg 1378

Query: 1360 gagctggggccacaggggctcctggctcctgccccttgacacaccaccggaacactcccc 1419

|||||
Sbjct: 1379 gagctggggccacaggggctcctggctcctgccccttgacacaccaccggaacactcccc 1438

Query: 1420 agccccacgggcaatcctatctgctcgccctcctgcagggtgggggcctcacatatctgtg 1479

|||||
Sbjct: 1439 agccccacgggcaatcctatctgctcgccctcctgcagggtgggggcctcacatatctgtg 1498

Query: 1480 acttcgggtccctgtccccacccttggtgcactcacatgaaagccttgacactcacctcc 1539

|||||
Sbjct: 1499 acttcgggtccctgtccccacccttggtgcactcacatgaaagccttgacactcacctcc 1558

Query: 1540 accttcacaggccatttgacacgctcctgcaccctctcccgtccataaccgctccgctc 1599

|||||
Sbjct: 1559 accttcacaggccatttgacacgctcctgcaccctctcccgtccataaccgctccgctc 1618

Query: 1600 agctgactctcatgttctctcgctctcacatttgcaactctctccttcccacattctgtgct 1659

|||||
Sbjct: 1619 agctgactctcatgttctctcgctctcacatttgcaactctctccttcccacattctgtgct 1678

Query: 1660 cagctcactcagtggtcagcggttctcctgcacactttacctctcatgtgcggtttcccgcc 1719

|||||
Sbjct: 1679 cagctcactcagtggtcagcggttctcctgcacactttacctctcatgtgcggtttcccgcc 1738

Query: 1720 tgatgttggtggtggtggtgcggcggtgctcactctctccctcatgaacacccacccacctcg 1779

|||||
Sbjct: 1739 tgatgttggtggtggtggtgcggcggtgctcactctctccctcatgaacacccacccacctcg 1798

Query: 1780 tttccgcagccccctgcgtgctgctccagaggtgggtgggaggtgagctgggggctccttg 1839

|||||
Sbjct: 1799 tttccgcagccccctgcgtgctgctccagaggtgggtgggaggtgagctgggggctccttg 1858

Query: 1840 ggccctcatcggtcatggtctcggtccattccacaccatttgtttctctgtctccccatc 1899

|||||

Sbjct: 1859 ggcctcatcggtcatggtctcgteccattccacaccatttgtttctctgtctcccatc 1918

Query: 1900 ctactccaaggatgccggcatcacccctgagggctcccccttggaatgggtagtgaggc 1959
|||||

Sbjct: 1919 ctactccaaggatgccggcatcacccctgagggctcccccttggaatgggtagtgaggc 1978

Query: 1960 cccagacttcaccccagcccaactgct---ctctgttttctgacagatgggttttgggga 2016
|||||

Sbjct: 1979 cccagacttcaccccagcccaactgctaaaatctgttttctgacagatgggttttgggga 2038

Query: 2017 gtcgctgctgcactacatgagaaagggactccatttgcccttccctttctcctacagt 2076
|||||

Sbjct: 2039 gtcgctgctgcactacatgagaaagggactccatttgcccttccctttctcctacagt 2098

Query: 2077 cccttttgtcttgtctgtcctggctgtctgtgtgtgtgccattctctggacttcagagcc 2136
|||||

Sbjct: 2099 cccttttgtcttgtctgtcctggctgtctgtgtgtgtgccattctctggacttcagagcc 2158

Query: 2137 ccctgagccagtcctcccttcccagcctccctttgggcctccctaactccacctaggtg 2196
|||||

Sbjct: 2159 ccctgagccagtcctcccttcccagcctccctttgggcctccctaactccacctaggtg 2218

Query: 2197 ccagggaccggagtcagctggttcaaggccatcgaggagctctgcctccaagtcta 2251
|||||

Sbjct: 2219 ccagggaccggagtcagctggttcaaggccatcgaggagctctgcctccaagtcta 2273

Score = 281 bits (142), Expect = 3e-72
Identities = 162/168 (96%), Gaps = 3/168 (1%)
Strand = Plus / Plus

Query: 1 cgccaagcatgcagtaaaggctgc---tctgggtcacagctgaggaagacctcagacatg 57
|||||

Sbjct: 17 cgccaagcatgcagtaaaggctgaaaatctgggtcacagctgaggaggacctcagacatg 76

Query: 58 gagtccaggatgtggcctgcgctgctgtgtcccacctcctccctctctggccactgctg 117
|||||

Sbjct: 77 gagtccaggatgtggcctgcgctgctgtgtcccacctcctccctctctggccactgctg 136

Query: 118 ttgctgcccctcccaccgcctgctcagggctcttcacccctccctcga 165
| |||||

Sbjct: 137 tcgctgcccctcccaccgcctgctcagggctcttcacccctccctcga 184

Score = 194 bits (98), Expect = 6e-46
Identities = 112/116 (96%), Gaps = 3/116 (2%)
Strand = Plus / Plus

Query: 2401 ggctcctaggctgtgatataatattttgtattatctctttcttcttcttcttgggtgatcat 2460
|||||
Sbjct: 2423 ggctcctaggctgtgatataatattttgtattatctctttcttcttcttcttgggtgatcat 2482

Query: 2461 cttgaattactgtgggatgtaagtttc---cttttcaaataaagcctttgcaagat 2513
|||||
Sbjct: 2483 cttgaattactgtgggatgtaagtttcaaaattttcaaataaagcctttgcaagat 2538

>gi|21750007|dbj|AK091596.1| Homo sapiens cDNA FLJ34277 fis, clone FEBRA2003
Length = 2458

Score = 3998 bits (2017), Expect = 0.0
Identities = 2031/2035 (99%), Gaps = 3/2035 (0%)
Strand = Plus / Plus

Query: 220 cgtcatgtgtgcgtgtgggagcgagcacctccaccaagccgatctcctcgggtcccaaga 279
|||||
Sbjct: 161 cgtcatgtgtgcgtgtgggagcgagcacctccaccaagccgatctcctcgggtcccaaga 220

Query: 280 tcacgtcggcaagtctctgcctggcactgcacccccagccaccccatcaggctttgaggag 339
|||||
Sbjct: 221 tcacgtcggcaagtctctgcctggcactgcacccccagccaccccatcaggctttgaggag 280

Query: 340 gggccgccctcatcccaataaccctgggctatcgtgtgggggtcccaccgtgtctcgagag 399
|||||
Sbjct: 281 gggccgccctcatcccaataaccctgggctatcgtgtgggggtcccaccgtgtctcgagag 340

Query: 400 gatggaggggaccccaactctgccaatcccgatttctggactatggttttgcagcccct 459
|||||
Sbjct: 341 gatggaggggaccccaactctgccaatcccgatttctggactatggttttgcagcccct 400

Query: 460 catgggctcgcaaccccaaccccaactcagactccatgaggtgatggagatgggctt 519
|||||
Sbjct: 401 catgggctcgcaaccccaaccccaactcagactccatgaggtgatggagatgggctt 460

Query: 520 atccttgagaggcacctgccaccctgcgccatttctgttcgggggcccgtggggaaggt 579
|||||
Sbjct: 461 atccttgagaggcacctgccaccctgcgccatttctgttcgggggcccgtggggaaggt 520

Query: 580 gtggacccccagctctatgtcacaattaccatctccatcatcattgttctcgtggccact 639
|||||
Sbjct: 521 gtggacccccagctctatgtcacaattaccatctccatcatcattgttctcgtggccact 580

Query: 640 ggcacatcttcaagttctgctgggaccgcagccagaagcgacgcagaccctcagggcag 699
|||||
Sbjct: 581 ggcacatcttcaagttctgctgggaccgcagccagaagcgacgcagaccctcagggcag 640

Query: 700 caaggtgccctgaggcaggaggagagccagcagccactgacagacctgtccccggctgga 759

Sbjct: 641 |||||
caaggtgccctgaggcaggaggagagccagcagccactgacagacctgtccccggctgga 700

Query: 760 gtcactgtgctgggggccttcggggactcacctacccccaccctgaccatgaggagccc 819
|||||

Sbjct: 701 gtcactgtgctgggggccttcggggactcacctacccccaccctgaccatgaggagccc 760

Query: 820 cgagggggaccccgccctgggatgccccaccccaagggggctccagccttcagttgaac 879
|||||

Sbjct: 761 cgagggggaccccgccctgggatgccccaccccaagggggctccagccttcagttgaac 820

Query: 880 cggtaggggcaggggcaatgggatgggagggcaaagagggaaggcaacttaggtcttcag 939
|||||

Sbjct: 821 cggtaggggcaggggcaatgggatgggagggcaaagagggaaggcaacttaggtcttcag 880

Query: 940 agctggggtgggggtgccctctggatgggtagtgaggaggcaggcgtggcctccacagc 999
|||||

Sbjct: 881 agctggggtgggggtgccctctggatgggtagtgaggaggcaggcgtggcctccacagc 940

Query: 1000 ccctggccctcccaagggggctggaccagctcctctctgggaggcacccttccttctccc 1059
|||||

Sbjct: 941 ccctggccctcccaagggggctggaccagctcctctctgggaggcacccttccttctccc 1000

Query: 1060 agtctctcaggatctgtgtcctattctctgtgcccataactccaactctgcctctttg 1119
|||||

Sbjct: 1001 agtctctcaggatctgtgtcctattctctgtgcccataactccaactctgcctctttg 1060

Query: 1120 gttttttctcatgccaccttgtctaagacaactctgcctcttaaccttgattccccctc 1179
|||||

Sbjct: 1061 gttttttctcatgccaccttgtctaagacaactctgcctcttaaccttgattccccctc 1120

Query: 1180 tttgtcttgaacttcccccttctattctggcctaccccttggttctgactgtgccctttc 1239
|||||

Sbjct: 1121 tttgtcttgaacttcccccttctattctggcctaccccttggttctgactgtgccctttc 1180

Query: 1240 cctcttcctctcaggattccccctggatgaatctgtgatgcccccaatggtggggtgcagcc 1299
|||||

Sbjct: 1181 cctcttcctctcaggattccccctggatgaatctgtgatgcccccaatggtggggtgcagcc 1240

Query: 1300 aagcaggaggccaaggggcccggcacagcccccatccactgagggtggggcagctgtggg 1359
|||||

Sbjct: 1241 aagcaggaggccaaggggcccggcacagcccccatccactgagggtggggcagctgtggg 1300

Query: 1360 gagctggggccacaggggctcctggctcctgccccttgacaccacccggaactcccc 1419
|||||

Sbjct: 1301 gagctggggccacaggggctcctggctcctgccccttgacaccacccggaactcccc 1360

Query: 1420 agccccacgggcaatcctatctgctcgccctcctgcaggtgggggcctcacatatctgtg 1479

|||||
Sbjct: 1361 agccccacgggcaatcctatctgctcgccctcctgcaggtgggggcctcacatatctgtg 1420

Query: 1480 acttcgggtccctgtgccccacccttgtgcactcacatgaaagccttgcacactcacctcc 1539
|||||
Sbjct: 1421 acttcgggtccctgtgccccacccttgtgcactcacatgaaagccttgcacactcacctcc 1480

Query: 1540 accttcacaggccatttgcacacgctcctgcaccctctccccgtccataaccgctccgctc 1599
|||||
Sbjct: 1481 accttcacaggccatttgcacacgctcctgcaccctctccccgtccataaccgctccgctc 1540

Query: 1600 agctgactctcatgtttctctcgtctcacatttgcactctctccttcccacattctgtgct 1659
|||||
Sbjct: 1541 agctgactctcatgtttctctcgtctcacatttgcactctctccttcccacattctgtgct 1600

Query: 1660 cagctcactcagtggtcagcggttctcctgcacactttacctctcatgtgcggttcccggcc 1719
|||||
Sbjct: 1601 cagctcactcagtggtcagcggttctcctgcacactttacctctcatgtgcggttcccggcc 1660

Query: 1720 tgatgttggtggtgtgctgcggcggtgctcactctctcctcctcatgaacacccacccacctcg 1779
|||||
Sbjct: 1661 tgatgttggtggtgtgctgcggcggtgctcactctctcctcctcatgaacacccacccacctcg 1720

Query: 1780 tttccgcagccctgcgtgctgctccagaggtgggtgggaggtgagctgggggctccttg 1839
|||||
Sbjct: 1721 tttccgcagccctgcgtgctgctccagaggtgggtgggaggtgagctgggggctccttg 1780

Query: 1840 ggccctcatcggtcatggtctcgtcccatccacaccatttgtttctctgtctccccatc 1899
|||||
Sbjct: 1781 ggccctcatcggtcatggtctcgtcccatccacaccatttgtttctctgtctccccatc 1840

Query: 1900 ctactccaaggatgccggcatcaccctgagggctcccccttggaatggggtagttaggc 1959
|||||
Sbjct: 1841 ctactccaaggatgccggcatcaccctgagggctcccccttggaatggggtagttaggc 1900

Query: 1960 ccagacttcacccccagccactgct---ctctgttttctgacagatgggttttgggga 2016
|||||
Sbjct: 1901 ccagacttcacccccagccactgctaaaatctgttttctgacagatgggttttgggga 1960

Query: 2017 gtcgctgctgcaactacatgagaaaggactcccatttgccttccctttctcctacagt 2076
|||||
Sbjct: 1961 gtcgctgctgcaactacatgagaaaggactcccatttgccttccctttctcctacagt 2020

Query: 2077 cccttttgccttgtctgtcctggctgtctgtgtgtgtgccattctctggacttcagagcc 2136
|||||
Sbjct: 2021 cccttttgccttgtctgtcctggctgtctgtgtgtgtgccattctctggacttcagagcc 2080

Query: 2137 ccctgagccagtcctcccttcccagcctccctttgggcctccctaactccacctaggctg 2196

|||||
Sbjct: 2081 ccctgagccagtcctcccttcccagcctccctttgggcctccctaactccacctaggctg 2140

Query: 2197 ccagggaccggagtcagctgggttcaaggccatcgaggagctctgcctccaagtcta 2251
|||||
Sbjct: 2141 ccagggaccggagtcagctgggttcaaggccatcgaggagctctgcctccaagtcta 2195

Score = 214 bits (108), Expect = 6e-52
Identities = 125/130 (96%), Gaps = 3/130 (2%)
Strand = Plus / Plus

Query: 1 cgccaagcatgcagtaaaaggctgc---tctgggtcacagctgaggaagacctcagacatg 57
|||||
Sbjct: 17 cgccaagcatgcagtaaaaggctgaaaatctgggtcacagctgaggaagacctcagacatg 76



Query: 58 gagtccaggatgtggcctgcgctgctgctgtcccacctcctccctctctggccactgctg 117
|||||
Sbjct: 77 gagtccaggatgtggcctgcgctgctgctgtcccacctcctccctctctggccactgctg 136

Query: 118 ttgctgcccc 127
||||
Sbjct: 137 ttgctgcccc 146

Score = 190 bits (96), Expect = 9e-45
Identities = 110/114 (96%), Gaps = 3/114 (2%)
Strand = Plus / Plus

Query: 2401 ggctcctaggctgtgatatatatattttgtattatctctttcttcttcttgggtgatcat 2460
|||||
Sbjct: 2345 ggctcctaggctgtgatatatatattttgtattatctctttcttcttcttgggtgatcat 2404

Query: 2461 cttgaattactgtgggatgtaagtttc---cttttcaaataaagcctttgcaag 2511
|||||
Sbjct: 2405 cttgaattactgtgggatgtaagtttcaaaattttcaaataaagcctttgcaag 2458

 >gi|29126308|gb|AC125494.2|  Homo sapiens 12 PAC RP4-761J14 (Roswell Park Cancer
Library) complete sequence
Length = 143979

Score = 3128 bits (1578), Expect = 0.0
Identities = 1592/1596 (99%), Gaps = 3/1596 (0%)
Strand = Plus / Plus

Query: 659 gctgggaccgcagccagaagcgacgcagaccctcagggcagcaagggtgccctgaggcagg 718
|||||
Sbjct: 102763 gctgggaccgcagccagaagcgacgcagaccctcagggcagcaagggtgccctgaggcagg 102822

Query: 719 aggagagccagcagccactgacagacctgtccccggctggagtcactgtgctgggggcct 778
 |||
 Sbjct: 102823 aggagagccagcagccactgacagacctgtccccggctggagtcactgtgctgggggcct 102882

Query: 779 tcggggactcacctacccccacccctgacctagaggagccccgagggggacccccggcctg 838
 |||
 Sbjct: 102883 tcggggactcacctacccccacccctgacctagaggagccccgagggggacccccggcctg 102942

Query: 839 ggatgccccaccccaagggggctccagccttccagttgaaccggtgagggcaggggcaat 898
 |||
 Sbjct: 102943 ggatgccccaccccaagggggctccagccttccagttgaaccggtgagggcaggggcaat 103002

Query: 899 gggatgggagggcaaagaggggaaggcaacttaggtcttcagagctgggggtgggggtgcc 958
 |||
 Sbjct: 103003 gggatgggagggcaaagaggggaaggcaacttaggtcttcagagctgggggtgggggtgcc 103062

Query: 959 tctggatgggtagttaggagggcaggcgtggcctcccacagccctggccctcccaagggg 1018
 |||
 Sbjct: 103063 tctggatgggtagttaggagggcaggcgtggcctcccacagccctggccctcccaagggg 103122

Query: 1019 gctggaccagctcctctctgggaggcacccttcccttctccagctctctcaggatctgtgt 1078
 |||
 Sbjct: 103123 gctggaccagctcctctctgggaggcacccttcccttctccagctctctcaggatctgtgt 103182

Query: 1079 cctattctctgctgcccataactccaactctgccctctttggttttttctcatgccacct 1138
 |||
 Sbjct: 103183 cctattctctgctgcccataactccaactctgccctctttggttttttctcatgccacct 103242

Query: 1139 tgtctaagacaactctgccctcttaaccttgattccccctctttgtcttgaacttccct 1198
 |||
 Sbjct: 103243 tgtctaagacaactctgccctcttaaccttgattccccctctttgtcttgaacttccct 103302

Query: 1199 tctattctggcctaccccttggttctgactgtgccctttccctcttctcaggattc 1258
 |||
 Sbjct: 103303 tctattctggcctaccccttggttctgactgtgccctttccctcttctcaggattc 103362

Query: 1259 ccctggtgaatctgtgatgcccccaatggtggggtgcagccaagcaggaggccaaggggc 1318
 |||
 Sbjct: 103363 ccctggtgaatctgtgatgcccccaatggtggggtgcagccaagcaggaggccaaggggc 103422

Query: 1319 cggcacagcccccatcccactgaggggtggggcagctgtggggagctggggccacaggggc 1378
 |||
 Sbjct: 103423 cggcacagcccccatcccactgaggggtggggcagctgtggggagctggggccacaggggc 103482

Query: 1379 tcctggctcctgccccttgacaccacccggaacactccccagccccacgggcaatccta 1438
 |||
 Sbjct: 103483 tcctggctcctgccccttgacaccacccggaacactccccagccccacgggcaatccta 103542